

Positions Open (Postdoctoral Fellows, Project Scientist, Project Associate)

Creative & Advanced Research Based On Nanomaterials (CARBON) Laboratory is actively engaged in the cutting edge research in the area of nanostructured carbon materials, Carbon-MEMS, electrospun polymer and carbon nanofibers for their applications in Energy, Environment & Healthcare.

We seek excellent young minds to contribute in the following areas with their creativity, dedication and commitment to work hard in a team:

(i) Energy Storage Devices (Batteries & Supercapacitors)

(ii) Electrospun Nanofibers for Sensing Applications

Positions available and Essential Qualifications:

2 Postdoctoral Fellow and 1 Project Scientist (Ph.D. in Chemistry/Physics/Chemical Engg./Materials Sci. Engg.)

1 Project Associate (M.Sc. in Physics/Chemistry with 2 years R&D experience OR M.Tech. in Chemical Engg./Materials Sci. Engg./Nanotechnology)

Note: All positions are for one year initially however may be extended further subjected to performance, as evaluated by the duly formed committee.

Desirable experience:

Postdoctoral fellow: Position 1: Hands on experience with electrospinning; synthesis of nanomaterials for sensing applications; Hands on experience with characterization facilities like FESEM, TEM, XRD, XPS, Raman spectroscopy, FTIR etc.

Postdoctoral fellow: Position 2: Worked on DFT calculations using Gaussian and/or VASP software for electrochemical studies related to Batteries and Supercapacitors. Candidates especially with experience on working with Metal-O₂/Metal-Air batteries with computational knowledge will be preferred.

Project Scientist: Position 1: Hands on experience with synthesis of nanomaterials (polymer, carbon and inorganic 2D materials) with their application in energy storage devices, electrochemical testing, Glove box handling, characterization facilities like FESEM, TEM, XRD, Raman spectroscopy, FTIR. Additional experience on photolithography based micro and nano-fabrication will be preferred.

NOTE: A postdoctoral fellow/Project Scientist is expected to lead a team of PhD, M.Tech. and Undergraduate researchers and also help the Project investigator in lab management with the help of Project Assistants. Experience in writing successful research grants will be preferred. Excellent communication and technical writing skills is also desirable. (Salary: 47,000-54,000 INR p.m. plus HRA, if applicable as per the GoI norms)

Project Associate: M.Tech. project related to energy storage devices (batteries and supercapacitors) (experimental work) will be preferred. For M.Sc. candidates, 2 years' experience in similar areas in National academic and R&D institutes. Candidates with some Scopus indexed journal publications will be preferred. Excellent communication and technical writing skills is desirable. (Salary: 31,000-35,000 INR p.m. plus HRA, as per the GoI norms)

If you meet the above criteria for any of the above post(s), please send your latest CV to carbonlabiith@gmail.com latest by Dec. 24, 2021. For any further queries, please write at carbonlabiith@gmail.com. Shortlisted candidates for interview (online) will be informed by email by Dec. 30, 2021.

Date and time of interview: January 2, 10:00am (Only for shortlisted candidates)

IMPORTANT: Selected candidates are expected to join latest by January 10.